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1. Uromyces euphorbia C. & P. and Aecidium euphorbiae Amer. Auct. with sowings of aecidiospores and uredospores.
2. Puccinia caricis (Schum.) Reb. and Aecidium urticae Schum. with sowings of teleutospores.
3. Puccinia angustata Pk. and Aecidium lycopi Ger. with sowings of teleutospores.
4. Puccinia poculiformis (Jacq.) Wettst. and Aecidium berberidis Pers. with sowings of teleutospores.
5. Puccinia albiperidia Arth. and Aecidium albiperidum Arth. with sowings of teleutospores.
6. Puccinia caricis-erigerontis Arth. and Aecidium erigeronatum Schw. with sowings of teleutospores.
7. Puccinia caricis-asteris Arth. and Aecidium asterum Schw. with sowings of teleutospores.
8. Puccinia bolleyana Sacc. and Aecidium sambuci Schw. (?) with sowings of teleutospores and aecidispores.

Purdue University, Lafayette, Ind., June, 1902.

OHIO FUNGI. FASCICLE IV

W. A. KELLERMAN, OHIO STATE UNIVERSITY.

The following species are included:

61. Aecidium cimicifugatum Schw., on Cimicifuga racemosa (L.) Nutt.
62. Aecidium ranunculi Schw., on Ranunculus abortivus L.
63. Albugo candidus (Pers.) Kuntze, on Camelina sativa (L.) Crantz.
64. Cercospora althaeina Sacc., on Althaea rosea Cav. (cultivated).
65. Cercospora hydropiperis (Thuem.) Speg., on Polygonum punctatum Ell.
66. Cintractia junci (Schw.) Trel., on Juncus tenuis Willd.
67. Gymnoconia interstitialis (Schlecht.) Lagh., on Rubus occidentalis L.
68. Plasmopara halstedii (Farl.) Berl. & De Toni, on Vitis sp., cultivated.
69. Puccinia caricis (Schum.) Reb., on Urtica gracilis Ait.
70. Puccinia caricis (Schum.) Reb., on Carex stricta Lam.
71. Puccinia caricis (Schum.) Reb., on Carex riparia Curtis.
72. Puccinia mariae-wilsoni Clint., on Claytonia virginica L.
73. Puccinia taraxaci Plowright, on Taraxacum taraxacum (L.) Karst.
74. Puccinia taraxaci Plowright, on Taraxacum erythrospermum Andrz.
75. Rhytisma concavum Ell. & Kellerm., on Ilex verticillata (L.) Gray.
76. Rhytisma concavum Ell. & Kellerm., on Ilex verticillata (L.) Gray.
77. Septoria astericola E. & E., on Aster cordifolius L.
78. Septoria kalmiaecola (Schw.) B. & C., on Kalmia latifolia L.

79. Urocystis carcinodes (B. & C.) Fisch., on Cimicifuga racemosa (L.) Nutt.
80. Venturia orbicula (Schw.) C. & P., on Quercus prinus L.

Thanks for assistance are extended to Messrs. Arthur, Clinton, Ellis, Lloyd, Morgan, Ricker, and to all whose names appear on the labels as collectors.

61. Aecidium cimicifugatum Schw.

On Cimicifuga racemosa (L.) Nutt.
Sugar Grove, Fairfield Co., Ohio. May 30, 1902.
Coll. W. A. Kellerman.

"Caeoma (Aecidium) Cimicifugatum, L. v. S...........

"C. maculis magnis orbiculatis luteis bullatis. Pseudoperidiis in pagina inferiori, concentricis, longissimis, cylindricis, apice primum clausis, demum subfimbriatis. Sporidiis aurantiacis albescentibus." L. D. de Schweinitz, Transactions of the American Philosophical Society, Philadelphia, 4:293. 1834.

62. Aecidium ranunculi Schw.

On Ranunculus abortivus L.
Brush Lake, Champaign Co., Ohio. May 4, 1902.
Coll. J. H. Schaffner and F. J. Tyler.

"Aecidium.

"Ranunculi (abortivi). Frequens in foliis rotundis radicalibus, expers fere macula." L. D. de Schweinitz, Synopsis Fungorum Carolinae Superioris (excerpta), p. 41, No. 440, 1822. (Schrift. d. Nat. Gesellschaft zu Leipzig.)

63. Albugo candidus (Pers.) Kuntze.

On Camelina sativa (L.) Crantz.
Columbus, Ohio. May 15, 1902.
Coll. F J. Tyler.

"Uredo candida: effusa candida.

"Aecidium candidum. in Gmel. Syst. nat. Linn. 2. p. 1473." D. C. H. Persoon, Synopsis Methodica Fungorum, 1:223. 1801.

"Uredo cheiranthi: sparsa subglobosa prominens candida.

"Acervuli globose prominent, epidermide cingente clausi, dimidiam lineam lati. Ob formani distinctam ab anticedente remouendam duxi." D. C. H. Persoon, Synopsis Methodica Fungorum, 1:224. 1801.

64. Cercospora althaeina Sacc.

On Althaea rosea Cav. (Cultivated.)
Columbus, Ohio. June 9, 1901.
Coll. W. A. Kellerman.

"Cercospora althaeina Sacc. sp. nova. Maculis amphigenis angulosis, brunneis, lyphis fasciculatis filiformibus, 40 x 5 (rarius usque 100 lgs.)

pauciseptatis, fusco-olivaceis; conidiis in hypharum apicibus cylindraceo-obclavatis, v. anguste fusoideis, rectiusculus, 40-50 x 5, 2-4 seotatis, apice obtusiusculus, hyalinus." P. A. Saccardo. Michelia, 1:269. 15 Januar, 1878.

65. Cercospora hydropiperis (Thuem.) Speg.

Helminthosporium hydropiperis Thuem.; Cercospora polygonorum Cke.

On Polygonum punctatum Ell.

Columbus, Ohio. September 22, 1901.

Coll. W. A. Kellerman.

"Helminthosporium Hydropiperis Thuem. nov, spec.

"H. caespitibus hydrophyllis, plerumque foliam totam occupans, velutinis, effusis, tenuibis, olivaceis, densis; hyphis erectis, subrectis, simplicibus, non vel vix septatis, tenuibus, brevibus, dilute fuscis; sporis longeclavatis, subcurvatis, apice dilatatis, vertice angustatis, subacutatis, 6-10 septatis ad septas non constrictis, cum nucleo hyalino unico in cellulis omnibus, dilute fuscis, 50-60 mm. long., 8-10 mm. crass." F. de Thuemen, Mycotheca universalis. no. 1087.

66. Cintractia junci (Schw.) Trel.

On Juncus tenuis Willd.

Brush Lake, Champaign Co., Ohio. May 30, 1902.

Coll. J. H. Schaffner and F. J. Tyler.

Caeoma (Ustilago) Junci, L. v. S....................

"C. aterrimum, longitudinaliter in glumis effusum, primum tectum cortice quasi spurio nigronitido. Sporidiis minutissimis conglutinatis. An idem Ustilago in Rhynchosporis rarissime obvia, sporidiis majoribus." L. D. de Schweinitz, Transactions of the American Philosophical Society, Philadelphia. 4:290. 1834.

67. Gymnoconia interstitialis (Schlecht.) Lagh.

On Rubus occidentalis L.

Olena, Huron Co., Ohio. June 2, 1902.

Coll. O. E. Jennings.

The host occurred with Rubus nigrobaccus but the latter harbored none of the fungus.

Supplement to No. 20.

68. Plasmopara halstedii (Farl.) Berl. & De Toni.

Peronospora halstedii Farl.

On Vitis sp., cultivated.

Columbus, Ohio. June 6, 1901.

Coll. W. A. Kellerman.

"P. halstedii Farlow. Mycelium with oval haustoria. Conidiophores rather stout, undivided below, above with numerous 1 to 4 pinnate

horizontal branches, the lower of which are considerably longer and more compound than the upper. Tips long, slender, acute, loosely diverging. Conidia oval or elliptic, 19-30 μ by 15-26 μ. Oospores 23-30 μ in diameter, yellowish, thin walled, exospore with a few folds or ridges." W. G. Farlow. Botanical Gazette, 8:310. October, 1883.

69. Puccinia caricis (Schum.) Reb.

Aecidium urticae Schum.
On Urtica gracilis Ait.
Carey, Wyandot Co., Ohio. May 20, 1902.
Coll. Thos. Bonser.

"Aecidum Urticae, orbiculare effusumque, elevatum purpureo crocatum; peridiis cupulaeformibus flavis, ore laciniato; laciniis crenulato-dentatis, obtusiusculis; pulvere citrino. In foliis et petiolis Urticae dioicae." Christ. Frieder. Schumacher, Enumeratio plantarum in partibus Saellandiae Septentrionalis et orientalis, 2:222. 1803.

70. Puccinia caricis (Schum.) Reb.

On Carex stricta. Lam.
Columbus, Ohio. March 20, 1902.
Coll. W. A. Kellerman.
Sowings of the spores on Urtica gracilis Ait. produced aecidia.
Supplement to No. 69.

It is more than doubtful whether the following descriptions apply to the Rust here distributed; but since the name as given above has been used for the American species it seems best to present the original diagnoses.

"Uredo carciis, peridiis oblongis, pallido-cinereis, distinctis rarius confluentibus paullulum elevatis; pulvere ferrugineo-badio." Christ. Frieder. Schumacher. Enumeratio plantarum in partibus Saellandiae septentrionalis et orientalis, 2:231. 1803.

"Puccinia striola L.

"P. maculis pallidis, acervis linearibus confertis distinctis amphigenis subconvexis, sporidiis nigricantibus." H. F. Link, Species Plantarum, 62:67. 1825.

Puccinia caricina DC.—Description given on label to Ohio Fungi No. 28.

71. Puccinia caricis (Schum.) Reb.

On Carex riparia Curtis.
Columbus, Ohio. April 17, 1902.
Coll. W. A. Kellerman.
Supplement to Nos. 69 and 70.

Species determined by culture experiments; sowings of the teleutospores on Urtica gracilis Ait. resulting in the production of spermogonia and aecidia.

72. Puccinia mariæ-wilsoni Clint.

On Claytonia virginica L.
Cincinnati, Ohio. May 15, 1902.
Coll. Walter H. Aiken.

"P. Mariae-Wilsoni *Clinton.*

"Amphigenous; spots none; sori scattered or clustered, unequal, at first covered by the epidermis, then surrounded by its ruptured remains, reddish-brown; spores sub-elliptical, scarcely constricted, crowned with a pustule, .0013′-.0018′ long, .0007′-.0008′ broad." Chas. H. Peck, Report on the State Museum, State of New York, 25:115. 1872.

73. Puccinia taraxaci Plowright.

On Taraxacum taraxacum (L.) Karst.
Columbus, Ohio. June 10, 1902.
Coll. W. A. Kellerman.

"Puccinia taraxaci. Plow.

"*Spermogonia.*—On yellow oval or rounded spots. Paraphyses not conspicuous. Spermatia globose or oval, 1-2 μ in diameter.

"*Uredospores-Primary*: Sori scanty, large, dark, brown, elongated or circinating. Spores ovate, round, or subpyriform, echinulate, brown, 25-30 x 25 μ. *Secondary*: Sori small, very profuse, round, cinnamon-brown, soon pulverulent, often confluent. Spores subglobose, brown, echinulate, 20–25 μ in diameter.

"*Teleutospores.* — Sori amphigenous, minute, blackish, round, pulverulent, surrounded by the ruptured epidermis. Spores obtuse, shortly oval, ovoid, or even subglobose, constriction almost none, brown, echinulate, especially above, 30-40 x 20-25 μ. Pedicels short, hyaline, deciduous." Charles B. Plowright, A Monograph of the British Uredineae and Ustilagineae, 186. 1889.

74. Puccinia taraxaci Plowright.

On Taraxacum erythrospermum Andrz.
Columbus, Ohio. May 18, 1902.
Coll. F. J. Tyler.

Supplement to No. 73.

75. Rhytisma concavum Ell. & Kellerm.

On Ilex verticillata (L.) Gray.
West Mansfield, Logan Co., Ohio. June 10, 1902.
Coll. W. A. Kellerman.

"Rhytisma concavum Ell. & Kellerm. n. sp. — Stromata epiphyllous but also visible below, forming thin, black, thickly scattered blotches, 1-4 mm. diameter, orbicular or subangular, the surface uneven, surrounded by a pale yellowish, narrow margin, more or less concave below and the margin broader and paler, at maturity rupturing by radiating fissures, in the oblong forms a central elongated fissure also occurring and in the larger ones a circular area being cut out, the hygroscopic lobes strongly recurved when moist exposing a light yellowish, later sordid yellow then blackish disk. Asci 80-110 x 8-10 μ, oblanceolate, much elongated below, strongly acute at apex, accompanied by abundant slender and elongated mostly flexuous paraphyses about 4 μ wide, usually enlarged at the tips. Spores 20-35 x 2-3 μ, hyaline, nearly straight to strongly curved, slightly thicker at one end in which are large clear granules." J. B. Ellis and W. A. Kellerman, Journal of Mycology, 8:51. June, 1902.

76. Rhytisma concavum Ell. & Kellerm.

On Ilex verticillata (L.) Gray.
West Mansfield, Logan Co., Ohio. July 19, 1901.
Coll. W. A. Kellerman.
Supplement to No. 75.

Stroma only; no asci.

77. Septoria astericola E. & E.

On Aster cordifolius L.
Columbus, Ohio. April 22, 1902.
Coll. W. A. Kellerman.

"Septoria astericola, n. s. — Spots amphigenous, dark brown, subindefinitely limited, bounded by a broad yellow border, the brown central part 3-4 millimeters across. Perithecia innate, finally partially erumpent above, numerous, scattered, small (75μ), scarcely visible in the earlier stages of growth, light brown. Sporules slender, nearly straight, nucleate, 30-45 by 1-1¼ μ. Differs from S. atropurpurea, Pk. in its yellow bordered spots and shorter, narrower sporules. J. B. Ellis and B. M. Everhart, Journal of Mycology, 5:150. 1889.

78. Septoria kalmiæcola (Schw.)) B. & C.

On Kalmia latifolia L.
Sugar Grove, Fairfield Co., Ohio. May 17, 1902.
Coll. W. A. Kellerman.

"Sphaeria (Depazea) Kalmicola, L. v. S..............

"S. maculis candidis orbiculatis, margine intumescente cinctis, et folia circumcirca nigricantibus. Peritheciis convexis atris concentricis innatis." L. D. de Schweinitz, Transactions of the American Philosophical Society, Philadelphia, 4:226. 1834.

79. Urocystis carcinodes (B. & C.) Fisch.

On Cimicifuga racemosa (L.) Nutt.
Sugar Grove, Fairfield Co., Ohio. May 30, 1902.
Coll. W. A. Kellerman.

"Thecaphora carcinodes. B. & C. — Soris maximis ellipticis e ramulis tumentibus; sporis globosis cellulis 4-6 hyalinis cinctis.

"Sori large, swelling out in elliptical masses; spores globose, surrounded by from four to six hyaline cells." M. J. Berkeley, Grevillea, 3:58. December, 1874.

80. Venturia orbicula (Schw.) C. & P.

On Quercus prinus. L.
Sugar Grove, Fairfield Co., Ohio. May 17, 1901.
Coll. W. A. Kellerman and Clara G. Mark.

"Sphaeria orbicula, L. v. S........................

"S. in maculis exacte orbiculatis, margine quasi linea nigra limitatis, ob aggregationem peritheciorum in margine perithecia numerosa aggregata sunt. Maculis ¼ uncialibus diametro, cinerascentibus. Peritheciis minutissimus, innatis, nigris, prominentibus pilis longis sparsis obsitis, demum deciduis, concoloribus." L. D. de Schweinitz, Transactions of the American Philosophical Society, Philadelphia, 4:224. 1834.

NEW ALABAMA FUNGI

BY J. B. ELLIS AND B. M. EVERHART.

The following fungi were collected in the vicinity of Tuskegee, Alabama, by George W. Carver, Director of the Department of Agriculture and Agricultural Experiment Station at Tuskegee, Ala.

PHYLLOSTICTA RICHARDSONIAE E. & E.—On leaves of Richardsonia scabra, Tuskegee, Ala. Aug. 1901.

Perithecia amphigenous, on irregularly shaped, dirty white spots and bleached areas of the leaves, mostly occupying and killing the tips of the leaves, perithecia scattered, globose, 80-110 μ diam., pierced above. Sporules oblong-elliptical, abundant, 4x1½ μ.

PHOMA APOCRYPTA E. & E.—On dead stems of Phytolacca decandra, Tuskegee, Ala. Oct. 1900 (Carver 704).

Perithecia subcuticular, raising the epidermis into little pustules pierced by the subconical ostiolum, globose, 150-200 diam., scattered or often three or more approximated, or sometimes seriately arranged and splitting the epidermis in clefts or cracks 2-3 mm. in length. Sporules elliptical or ovoid, 1-2 nucleate, with a slight smoky tinge, 3-4x1½-2 μ.

Its much smaller sporules as well as its pseudo-stromatic habit will separate it from P. herbarum West. and from P. phytolaccae B. & C. May be the spermogonial stage of Diaporthe aculeata Schw.

PHOMA ZEICOLA E .& E.—Bull. Torr. Bot. Club, 27:573. 1900. Specimens recently sent show that the perithecia appear at first on definite, pallid spots, which finally become confluent.